

11-A

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/623,714	KANG ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Thuy V. Tran	2821	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 10/26/2004.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 22 July 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

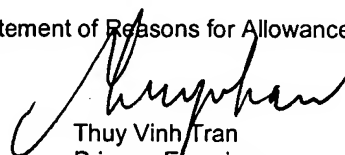
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date <u>6/1/04; 7/14/04</u></li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____.</li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
|---|--|

  
 Thuy Vinh Tran  
 Primary Examiner  
 Art Unit: 2821

### **DETAILED ACTION**

This is a response to the Applicants' amendment submitted on October 26<sup>th</sup>, 2004. In virtue of this amendment, claims 1-20 remain active in the instant application.

#### ***Allowable Subject Matter***

1. Claims 1-20 are allowed.

#### ***Reasons for Allowance***

2. The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose or fairly suggest:

- A method for driving a plasma display panel, which includes a plurality of first and second electrodes arranged in pairs, a plurality of data electrodes formed normal to the first and second electrodes, and a plurality of sub-fields for one TV field to display a multi-gradation, comprising applying a first voltage alternately to the first electrodes and the second electrodes to cause a sustain discharge, and after applying a second voltage to the first electrodes or removing part of the first voltage applied to the first electrodes, applying third and fourth voltages to the second electrodes and the data electrodes, respectively, before applying the first voltage, to erase wall charges in cells defined by the first electrodes, the data electrodes, and the second electrodes, accommodating an address erasure, in combination with the remaining claimed limitations as called for in independent claim 1 (claims 2-8 are allowed since they are dependent on claim 1);
- An apparatus for driving a plasma display panel, which includes a plurality of first and second electrodes arranged in pairs, a plurality of data electrodes formed normal

Art Unit: 2821

to the first and second electrodes, and a plurality of sub-fields for one TV field to display a multi-gradation, comprising a first driver for applying a voltage for sustain discharge to the first electrodes by periods, and applying a first voltage to the first electrodes of cells selected for erasure of the sustain discharge or removing the voltage for sustain discharge to erase the sustain discharge, and a third driver for applying a third voltage to the data electrodes of cells selected for erasure of the sustain discharge, in combination with the remaining claimed limitations as called for in independent claim 9 (claims 10-16 are allowed since they are dependent on claim 9);

- A plasma display panel comprising a first driver for applying a first voltage to the first electrodes by periods to cause a sustain discharge, and applying a second voltage to the first electrodes of cells selected for erasure of the sustain discharge or removing the first voltage to erase the sustain discharge, and a third driver for applying a fourth voltage to the data electrodes of cells selected for erasure of the sustain discharge before applying the first voltage, after applying the second voltage to the first electrodes or removing the first voltage from the first electrodes, in combination with the remaining claimed limitations as called for in independent claim 17;
- A computer-readable medium having computer-executable instructions for performing a method for driving a plasma display panel, which includes a plurality of first and second electrodes arranged in pairs, a plurality of data electrodes formed normal to the first and second electrodes, and a plurality of sub-fields for one TV field to display a multi-gradation, the method comprising applying a first voltage

Art Unit: 2821

alternately to the first electrodes and the second electrodes to cause a sustain discharge, and applying third and fourth voltages to the second electrodes and the data electrodes, respectively, before applying the first voltage, to erase wall charges in cells defined by the first electrodes, the data electrodes, and the second electrodes, in combination with the remaining claimed limitations as called for in independent claim 18; and

- A computer-readable medium having stored thereon a data structure comprising a second field containing data representing applying a first voltage alternately to the first electrodes and the second electrodes to cause a sustain discharge, and a third field containing data representing applying third and fourth voltages to the second electrodes and the data electrodes, respectively, before applying the first voltage, to erase wall charges in cells defined by the first electrodes, the data electrodes, and the second electrodes, in combination with the remaining claimed limitations as called for in independent claim 19 (claim 20 is allowed since it is dependent on claim 19).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

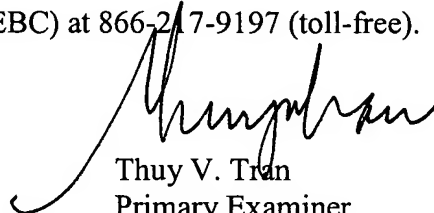
### ***Inquiry***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -5:00 PM).

Art Unit: 2821

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Thuy V. Tran  
Primary Examiner  
Art Unit 2821

01/10/2005